

## A PROCESS FOR GROWING A CARBON FILM

ABSTRACT OF THE DISCLOSURE

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A film (carbon and/or diamond) for a field emitter device, which may be utilized within a computer display, is produced by a process utilizing etching of a substrate and then depositing the film. The etching step creates nucleation sites on the substrate for the film deposition process. With this process patterning of the emitting film is avoided. A field emitter device can be manufactured with such a film.

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